

**EAST Search History****EAST Search History (Prior Art)**

| Ref # | Hits | Search Query                                                                                                                                                                                                                                                                                                     | DBs                                                | Default Operator | Plurals | Time Stamp          |
|-------|------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------|------------------|---------|---------------------|
| S1    | 1    | 10/534380                                                                                                                                                                                                                                                                                                        | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT | OR               | ON      | 2008/04/10<br>10:39 |
| S2    | 34   | (MBMS (multimedia adj broadcast\$3 adj multicast adj servic\$3)(multi-media adj broadcast\$3 adj3 servic \$3)) and (detect\$3 determin \$6 whether if) with (delay\$3 collisin\$3 interfer\$6 over-lap \$3 overlap\$4) near (time interval) and @ad<"22021107"                                                   | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT | OR               | ON      | 2008/04/10<br>10:58 |
| S3    | 14   | (MBMS (multimedia adj broadcast\$3 adj multicast adj servic\$3)(multi-media adj broadcast\$3 adj3 servic \$3)) and (detect\$3 determin \$6 whether if) with (delay\$3 collisin\$3 interfer\$6 over-lap \$3 overlap\$4) near (time interval) and @ad<"20021107"                                                   | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT | OR               | ON      | 2008/04/10<br>11:00 |
| S4    | 1    | (MBMS (multimedia adj broadcast\$3 adj multicast adj servic\$3)(multi-media adj broadcast\$3 adj3 servic \$3)) and (mobile user portable cell cellular pda phone) with (detect\$3 determin\$6 whether if) with (delay\$3 collisin\$3 interfer\$6 over-lap\$3 overlap\$4) near (time interval) and @ad<"20021107" | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT | OR               | ON      | 2008/04/10<br>11:07 |
| S5    | 3387 | (mobile user portable cell cellular pda phone) with (detect\$3 determin\$6 whether if) with (delay\$3 collisin\$3 interfer\$6 over-lap \$3 overlap\$4) near (time interval)                                                                                                                                      | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT | OR               | ON      | 2008/04/10<br>11:12 |

|     |    |                                                                                                                                                                                                                                                                                                               |                                           |    |    |                  |
|-----|----|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------|----|----|------------------|
| S6  | 52 | (mobile user portable cell cellular pda phone) with (detect\$3 determin\$6 whether if) with (delay\$3 collisin\$3 interfer\$6 over-lap \$3 overlap\$4) near (time interval) and ((random adj access adj channel) RACH)                                                                                        | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | OR | ON | 2008/04/10 11:13 |
| S7  | 59 | (mobile user portable cell cellular pda phone) with (detect\$3 determin\$6 whether if) with (delay\$3 collisin\$3 interfer\$6 over-lap \$3 overlap\$4) near (time interval period\$6 cycle) and ((random adj access adj channel) RACH)                                                                        | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | OR | ON | 2008/04/10 11:16 |
| S8  | 27 | increas\$3 with (density time interval period\$6 cycle) and (MBMS (multimedia adj broadcast\$3 adj multicast adj servic\$3)(multi-media adj broadcast\$3 adj3 servic \$3)) and ((random adj access adj channel) RACH)                                                                                         | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | OR | ON | 2008/04/10 11:28 |
| S9  | 9  | (portable phone mobile user device cellular pda) with ((random adj access adj channel) RACH) with (detect \$3 determin\$6 whether if) with (delay\$3 collision\$3 interfer\$6 over-lap\$3 overlap \$4) near (time interval period \$6 cycle)                                                                  | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | OR | ON | 2008/04/10 11:47 |
| S10 | 57 | ((random adj access adj channel) RACH) and (portable phone mobile user device cellular pda) with (detect\$3 determin\$6 whether if) with (delay\$3 collision\$3 interfer\$6 over-lap \$3 overlap\$4) near (time interval period\$6 cycle)                                                                     | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | OR | ON | 2008/04/10 11:53 |
| S11 | 75 | ((random adj access adj channel) RACH) and (portable phone mobile user device cellular pda) with (detect\$3 determin\$6 whether if) with (delay\$3 collision\$3 interfer\$6 over-lap \$3 overlap\$4 hold\$3 wait\$4 interrupt\$3 stop\$4 laps\$3 drop\$4 fall\$4 sip\$4) near (time interval period\$6 cycle) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | OR | ON | 2008/04/10 11:56 |

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| S12 | 1      | 10/534380                                                                                                                | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT | OR | ON | 2008/12/17<br>14:36 |
| S13 | 338    | time near variable same<br>increas\$3 near time                                                                          | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT | OR | ON | 2008/12/17<br>14:37 |
| S14 | 1      | S12 and S13                                                                                                              | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT | OR | ON | 2008/12/17<br>14:37 |
| S15 | 3095   | time near variable and<br>increas\$3 near time                                                                           | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT | OR | ON | 2008/12/17<br>14:38 |
| S16 | 1      | S12 and S15                                                                                                              | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT | OR | ON | 2008/12/17<br>14:38 |
| S17 | 5      | increas\$3 near4 density<br>near6 delay\$3 and (determin<br>\$6 detect\$3) near6 (phone<br>mobile portable pda cellular) | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT | OR | ON | 2009/09/29<br>14:40 |
| S18 | 1      | 10/534380                                                                                                                | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT | OR | ON | 2009/09/29<br>14:41 |
| S19 | 265552 | densit\$3 near4 increas\$3                                                                                               | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT | OR | ON | 2009/09/29<br>14:42 |
| S20 | 1      | S18 and S19                                                                                                              | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT | OR | ON | 2009/09/29<br>14:42 |
| S21 | 2274   | (user portable subscriber<br>mobile phone cellular pda)<br>same determin\$6 near6 time<br>near2 delay\$3                 | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT | OR | ON | 2009/09/29<br>14:43 |
| S22 | 620    | 455/515.ccls.                                                                                                            | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT | OR | ON | 2009/09/29<br>14:44 |
| S23 | 2      | S21 and S22                                                                                                              | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT | OR | ON | 2009/09/29<br>14:44 |
| S24 | 62     | kroth near2 norbert.in.                                                                                                  | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT | OR | ON | 2009/09/29<br>14:45 |

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| S25 | 873    | probabil\$4 with densit\$3 near3 increas\$3                                                                                  | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | OR | ON | 2009/09/29 14:46 |
| S26 | 2      | S24 and S25                                                                                                                  | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | OR | ON | 2009/09/29 14:46 |
| S27 | 7      | S21 and S25                                                                                                                  | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | OR | ON | 2009/09/29 14:46 |
| S28 | 5      | probabil\$4 with densit\$3 near3 increas\$3 and (determin\$6 detect\$3) same uplink                                          | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | OR | ON | 2009/09/29 14:48 |
| S29 | 185    | densit\$3 near3 increas\$3 and (determin\$6 detect\$3) same uplink                                                           | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | OR | ON | 2009/09/29 14:49 |
| S30 | 87     | densit\$3 near3 increas\$3 and (determin\$6 detect\$3) same uplink same (user portable subscriber mobile phone cellular pda) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | OR | ON | 2009/09/29 14:50 |
| S31 | 494    | (determin\$5 detect\$3) with time near2 delay\$3 and probabil\$5 near distribut\$3                                           | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | OR | ON | 2009/09/29 14:54 |
| S32 | 13     | (determin\$5 detect\$3) with time near2 delay\$3 and probabil\$5 near distribut\$3 near5 increas\$3                          | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | OR | ON | 2009/09/29 14:55 |
| S35 | 104    | (determin\$5 detect\$3) same delay\$3 near3 time same probabil\$5 near distribut\$3                                          | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | OR | ON | 2009/09/29 14:58 |
| S36 | 152041 | "455"/\$.ccls.                                                                                                               | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | OR | ON | 2009/09/29 15:02 |
| S37 | 5      | S35 and S36                                                                                                                  | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | OR | ON | 2009/09/29 15:02 |
| S38 | 104    | (determin\$5 detect\$3) same (interference delay\$3) near3 time same probabil\$5 near distribut\$3                           | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | OR | ON | 2009/09/29 15:06 |
| S41 | 10     | (determin\$5 detect\$3) same (interference delay\$3) near3 time same probabil\$5 near distribut\$3 and (uplink up-link)      | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | OR | ON | 2009/09/29 15:09 |

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| S42 | 19  | (determin\$5 detect\$3) same (interference delay\$3) near3 time same probabil\$5 same (uplink up-link)                                                                                         | US-PGPUB; USPAT; USOOR; EPO; JPO; DERWENT | OR | ON | 2009/09/29 15:16 |
| S43 | 12  | probabil\$5 with delay\$3 near time same (uplink up-link)                                                                                                                                      | US-PGPUB; USPAT; USOOR; EPO; JPO; DERWENT | OR | ON | 2009/09/29 15:44 |
| S44 | 313 | ((random adj access adj channel) RACH) and (user portable phone mobile pda cellular) with (determin\$6 near2 (time delay\$3 interference))                                                     | US-PGPUB; USPAT; USOOR; EPO; JPO; DERWENT | OR | ON | 2009/09/29 15:48 |
| S45 | 37  | ((random adj access adj channel) RACH) same (user portable phone mobile pda cellular) with (determin\$6 near2 (time delay\$3 interference))                                                    | US-PGPUB; USPAT; USOOR; EPO; JPO; DERWENT | OR | ON | 2009/09/29 15:48 |
| S46 | 30  | ((random adj access adj channel) RACH) same (user portable phone mobile pda cellular) with (determin\$6 near2 (time delay\$3 interference)) and (uplink up-link)                               | US-PGPUB; USPAT; USOOR; EPO; JPO; DERWENT | OR | ON | 2009/09/29 15:50 |
| S47 | 17  | ((random adj access adj channel) RACH) same (user portable phone mobile pda cellular) with (determin\$6 near2 (time delay\$3 interference)) and (uplink up-link) and (possibility probability) | US-PGPUB; USPAT; USOOR; EPO; JPO; DERWENT | OR | ON | 2009/09/29 15:54 |
| S48 | 1   | 10/534380                                                                                                                                                                                      | US-PGPUB; USPAT; USOOR; EPO; JPO; DERWENT | OR | ON | 2009/10/01 10:35 |
| S49 | 2   | ((random adj access adj channel) RACH) and signal\$4 near4 overload and (user portable phone mobile pda cellular) and determin\$6 near2 delay\$3 near2 (time period\$4 interval cycle)         | US-PGPUB; USPAT; USOOR; EPO; JPO; DERWENT | OR | ON | 2009/10/01 10:39 |
| S50 | 160 | ((random adj access adj channel) RACH) and (user portable phone mobile pda cellular) same (detect\$3 determin\$6) with delay\$3 with (time period\$4 interval cycle)                           | US-PGPUB; USPAT; USOOR; EPO; JPO; DERWENT | OR | ON | 2009/10/01 10:42 |

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| S51 | 1      | ((random adj access adj channel) RACH) and (user portable phone mobile pda cellular) same (detect\$3 determin\$6) with delay\$3 with (time period\$4 interval cycle) and (overload\$3 overload\$3) and (simultaneous near3 attempt\$3) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | OR | ON | 2009/10/01 10:49 |
| S53 | 55     | (detect\$3 determin\$6) with delay\$3 with random near2 (time period\$4 interval cycle) same (user portable phone mobile pda cellular)                                                                                                 | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | OR | ON | 2009/10/01 11:55 |
| S54 | 29     | increas\$3 with (frequenc\$3 bandwidth channel) same (plurality multiple) with (phone portable mobile cellular pda) and random with delay\$3 with (time interval cycle)                                                                | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | OR | ON | 2009/10/02 09:37 |
| S55 | 1100   | time near variable same increas\$3 near3 time                                                                                                                                                                                          | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | OR | ON | 2009/10/02 10:00 |
| S56 | 149    | time near variable same increas\$3 near3 time and determin\$3 with delay\$3 near (time interval cycle)                                                                                                                                 | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | OR | ON | 2009/10/02 10:01 |
| S57 | 20     | time near variable same increas\$3 near3 time same determin\$3 with delay\$3 near (time interval cycle)                                                                                                                                | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | OR | ON | 2009/10/02 10:01 |
| S58 | 152250 | "455"/\$.ccls.                                                                                                                                                                                                                         | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | OR | ON | 2009/10/02 10:03 |
| S59 | 14     | S56 and S58                                                                                                                                                                                                                            | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | OR | ON | 2009/10/02 10:03 |
| S60 | 84     | ((random adj access adj channel) RACH) and increas \$3 near time and (uplink up-link down-link downlink) and (possibility probability)                                                                                                 | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | OR | ON | 2009/10/02 10:05 |
| S61 | 10     | ((random adj access adj channel) RACH) and increas \$3 near time and (uplink up-link down-link downlink) and determin\$4 with delay\$3 near time                                                                                       | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | OR | ON | 2009/10/02 10:05 |

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| S62 | 9   | (uplink up-link)and increas\$3 near2 density and increas\$3 near2 time and determin\$4 with delay\$3                                                                   | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | OR | ON | 2009/10/02 10:11 |
| S63 | 575 | (uplink up-link)and increas\$3 near2 time and determin\$4 with delay\$3                                                                                                | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | OR | ON | 2009/10/02 10:12 |
| S64 | 68  | (uplink up-link)and increas\$3 near2 time and determin\$4 with delay\$3 and ((random adj access adj channel) RACH)                                                     | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | OR | ON | 2009/10/02 10:12 |
| S65 | 95  | increas\$3 near2 time and determin\$4 with delay\$3 and ((random adj access adj channel) RACH)                                                                         | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | OR | ON | 2009/10/02 10:16 |
| S66 | 242 | (user mobile phone portable) with (determin\$3 detect\$3) with delay\$3 near time and (increas\$3 add\$3 rais\$3) near time                                            | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | OR | ON | 2009/10/02 10:53 |
| S67 | 5   | (user mobile phone portable) with (determin\$3 detect\$3) with delay\$3 near time and (increas\$3 add\$3 rais\$3) near time and ((random adj access adj channel) RACH) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | OR | ON | 2009/10/02 10:54 |
| S68 | 17  | (user mobile phone portable) with (determin\$3 detect\$3) with delay\$3 near time and (increas\$3 add\$3 rais\$3) near time and (access adj channel)                   | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | OR | ON | 2009/10/02 10:55 |
| S69 | 40  | uplink near2 access near channel and (add\$3 increas \$3) near time                                                                                                    | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | OR | ON | 2009/10/02 10:57 |
| S70 | 18  | uplink near2 access near channel and (add\$3 increas \$3) near time and (determin \$5 detect\$3) with delay\$3                                                         | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | OR | ON | 2009/10/02 10:58 |
| S71 | 20  | uplink near2 access near channel and (add\$3 increas \$3) near (interval time cycle) and (determin\$5 detect\$3) with delay\$3                                         | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | OR | ON | 2009/10/02 11:00 |
| S72 | 58  | uplink near2 access near channel and (add\$3 increas \$3) near (densit\$3 interval time cycle)                                                                         | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | OR | ON | 2009/10/02 11:03 |
| S73 | 1   | 10/534380                                                                                                                                                              | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | OR | ON | 2009/10/02 11:42 |

|     |      |                                                                                                                                               |                                           |    |    |                  |
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| S74 | 1    | dedicat\$3 near2 terminat\$4 near signal same (user portable phone mobile)                                                                    | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | OR | ON | 2009/10/02 11:46 |
| S75 | 147  | terminat\$4 near signal near4 (requir\$3 respon\$5) same (user portable phone mobile)                                                         | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | OR | ON | 2009/10/02 11:47 |
| S76 | 16   | indicat\$3 with terminat\$4 near signal near4 (requir\$3 respon\$5) same (user portable phone mobile)                                         | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | OR | ON | 2009/10/02 11:50 |
| S77 | 0    | dedicat\$3 near4 indicat\$3 with terminat\$4 near signal near4 (requir\$3 respon\$5) and (user portable phone mobile)                         | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | OR | ON | 2009/10/02 13:43 |
| S78 | 4296 | ((user adj equipment) phone portable mobile pda cell cellular) same (detect\$3 determin\$6) with (delay\$3 interferenc\$3) near time          | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | OR | ON | 2010/03/16 12:12 |
| S79 | 4212 | ((user adj equipment) phone portable mobile pda cell cellular) same (detect\$3 determin\$6) with (delay\$3) near time                         | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | OR | ON | 2010/03/16 12:12 |
| S80 | 660  | 455/515.ccls.                                                                                                                                 | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | OR | ON | 2010/03/16 12:12 |
| S81 | 4    | S79 and S80                                                                                                                                   | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | OR | ON | 2010/03/16 12:13 |
| S82 | 4826 | ((user adj equipment) phone portable mobile pda cell cellular) same (detect\$3 determin\$6) with (delay\$3) near (tim\$3 period interval)     | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | OR | ON | 2010/03/16 12:15 |
| S83 | 4566 | ((user adj equipment) phone portable mobile pda cell cellular) same (detect\$3 determin\$6) with (delay\$3) near (time timer period interval) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | OR | ON | 2010/03/16 12:15 |
| S84 | 6    | S80 and S83                                                                                                                                   | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | OR | ON | 2010/03/16 12:16 |

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| S85 | 2618  | ((user adj equipment) phone portable mobile pda cell cellular) with (detect\$3 determin\$6) with (delay\$3) near (time timer period interval)                            | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | OR | ON | 2010/03/16 12:19 |
| S86 | :9    | ((user adj equipment) phone portable mobile pda cell cellular) with (detect\$3 determin\$6) with (delay\$3) near (time timer period interval) same messag\$3 near pag\$3 | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | OR | ON | 2010/03/16 12:19 |
| S87 | :55   | ((user adj equipment) phone portable mobile pda cell cellular) with (detect\$3 determin\$6) with random\$6 near2 (delay\$3) and (tim\$3 timer)                           | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | OR | ON | 2010/03/16 12:32 |
| S88 | :55   | ((user adj equipment) phone portable mobile pda cell cellular) with (detect\$3 determin\$6) with random\$6 near2 (delay\$3 overload\$3) and (tim\$3 timer)               | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | OR | ON | 2010/03/16 12:40 |
| S89 | :57   | ((user adj equipment) phone portable mobile pda cell cellular) with (detect\$3 determin\$6) with random\$6 near2 (delay\$3 overload\$3 congest\$4) and (tim\$3 timer)    | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | OR | ON | 2010/03/16 12:42 |
| S90 | :7827 | ((user adj equipment) phone portable mobile pda cell cellular) with (increas\$3) with (delay\$3 overload\$3 congest\$4)                                                  | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | OR | ON | 2010/03/16 12:56 |
| S91 | :19   | S80 and S90                                                                                                                                                              | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | OR | ON | 2010/03/16 12:57 |
| S92 | :10   | ("20010034231"   "20010038615"   "20020077105"   "20030063584"   "20030091020"   "20030211855"   "20060166653"   "5999813"   "6119000"   "7075904"). PN.                 | US-PGPUB; USPAT; USOCR                    | OR | ON | 2010/03/16 12:58 |
| S93 | :3    | (base adj station) with increas\$4 with (densit\$3 capacit\$4) same probabilit\$3 near2 distribut\$4                                                                     | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | OR | ON | 2010/03/16 13:05 |

|      |       |                                                                                                                                                                                                                   |                                           |    |    |                  |
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| S94  | 30    | (base adj station) with increas\$4 with (densit\$3 capacit\$4) and probabilit\$3 near2 distribut\$4                                                                                                               | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | OR | ON | 2010/03/16 13:06 |
| S95  | 282   | (base adj station) same increas\$4 with (densit\$3 capacit\$4) and increas\$4 near time                                                                                                                           | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | OR | ON | 2010/03/16 13:08 |
| S96  | 28    | (base adj station) same increas\$4 with (densit\$3 capacit\$4) and increas\$4 near time same probabilit\$4                                                                                                        | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | OR | ON | 2010/03/16 13:09 |
| S97  | 49    | (base adj station) same increas\$4 with (densit\$3 capacit\$4 user) same increas \$4 near time and delay\$3                                                                                                       | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | OR | ON | 2010/03/16 14:38 |
| S98  | 11945 | (count\$3 calculat\$4) same (user portable phone mobile cell cellular pda) same time near interval                                                                                                                | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | OR | ON | 2010/03/16 14:49 |
| S99  | 3000  | (count\$3 calculat\$4) with (user portable phone mobile cell cellular pda) with time near interval                                                                                                                | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | OR | ON | 2010/03/16 14:54 |
| S101 | 3     | (count\$3 calculat\$4) with (user portable phone mobile cell cellular pda) with time near interval and signal\$4 near (overload\$3 over-load \$3)                                                                 | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | OR | ON | 2010/03/16 14:55 |
| S102 | 1     | (count\$3 calculat\$4) same (user portable phone mobile cell cellular pda) same time near interval and (base adj station) same increas\$4 with (densit\$3 capacit\$4) and increas\$4 near time same probabilit\$4 | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | OR | ON | 2010/03/16 14:56 |
| S103 | 115   | 455/515.ccls. and increas\$4 with (densit\$5 capacit\$4 probabilit\$4)                                                                                                                                            | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | OR | ON | 2010/03/16 14:58 |
| S104 | 1031  | (base adj station) same (determin\$6 detect\$3) with delay\$3 near time                                                                                                                                           | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | OR | ON | 2010/03/16 15:09 |
| S105 | 7     | S80 and S104                                                                                                                                                                                                      | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | OR | ON | 2010/03/16 15:10 |

|      |     |                                                                                                                                                                                                           |                                           |    |    |                  |
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| S106 | 58  | ((user adj equipment) phone portable mobile pda cell cellular) with (detect\$3 determin\$6) with random\$6 near2 (delay\$3 overload\$3 over-load\$3 congest\$4)                                           | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | OR | ON | 2010/03/16 16:29 |
| S107 | 262 | ((user adj equipment) phone portable mobile pda cell cellular) same (detect\$3 determin\$6) same random\$6 near2 (delay\$3 overload\$3 over-load\$3 congest\$4)                                           | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | OR | ON | 2010/03/16 16:36 |
| S108 | 116 | ((user adj equipment) phone portable mobile pda cell cellular) same (detect\$3 determin\$6) same random\$6 near2 (delay\$3 overload\$3 over-load\$3 congest\$4) with time                                 | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | OR | ON | 2010/03/16 16:36 |
| S109 | 19  | ((user adj equipment) phone portable mobile pda cell cellular) same (detect\$3 determin\$6) same random\$6 near2 (delay\$3 overload\$3 over-load\$3 congest\$4) with time and (RACH uplink)               | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | OR | ON | 2010/03/16 16:37 |
| S110 | 12  | ((user adj equipment) phone portable mobile pda cell cellular) same (detect\$3 determin\$6) same random\$6 near2 (delay\$3 overload\$3 over-load\$3 congest\$4) with time and (RACH (uplink adj channel)) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | OR | ON | 2010/03/16 16:48 |
| S111 | 65  | 455/515.ccls. and ((user adj equipment) phone portable mobile pda cell cellular) same (delay\$3 time) and (RACH (uplink adj channel))                                                                     | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | OR | ON | 2010/03/16 16:57 |
| S112 | 197 | 455/515.ccls. and ((user adj equipment) phone portable mobile pda cell cellular) same (detect\$3 determin\$6) with (delay\$3 time)                                                                        | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | OR | ON | 2010/03/16 17:03 |
| S113 | 36  | random same delay\$3 with time and MBMS                                                                                                                                                                   | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | OR | ON | 2010/03/16 17:12 |
| S114 | 273 | random same delay\$3 with time and RACH                                                                                                                                                                   | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | OR | ON | 2010/03/16 17:14 |
| S115 | 343 | random same delay\$3 same time and RACH                                                                                                                                                                   | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | OR | ON | 2010/03/16 17:15 |

|      |        |                                                                                                                                                 |                                           |    |    |                  |
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| S116 | 71     | random same delay\$3 same time and RACH same probab \$7                                                                                         | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | OR | ON | 2010/03/16 17:15 |
| S117 | 7636   | random same delay\$3 same time and (determin\$4 detect \$4) same (user phone portable mobile pda cell cellular)                                 | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | OR | ON | 2010/03/16 17:28 |
| S118 | 5224   | random same delay\$3 with time and (determin\$4 detect \$4) same (user phone portable mobile pda cell cellular)                                 | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | OR | ON | 2010/03/16 17:29 |
| S119 | 829    | random same delay\$3 with time same (determin\$4 detect\$4) same (user phone portable mobile pda cell cellular)                                 | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | OR | ON | 2010/03/16 17:29 |
| S120 | 65     | random same delay\$3 with time same (determin\$4 detect\$4) same (user phone portable mobile pda cell cellular) same probabi\$6                 | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | OR | ON | 2010/03/16 17:29 |
| S121 | 164    | ((user adj equipment) phone portable mobile pda cell cellular) same random same (determin\$6) with (delay\$3) with (time timer period interval) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | OR | ON | 2010/03/16 17:34 |
| S122 | 1589   | random same delay\$3 near2 time same (user equipment phone portable cell cellular pda mobile)                                                   | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | OR | ON | 2010/03/18 10:20 |
| S123 | 3770   | uplink near2 access                                                                                                                             | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | OR | ON | 2010/03/18 10:20 |
| S124 | 5      | S122 same S123                                                                                                                                  | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | OR | ON | 2010/03/18 10:20 |
| S125 | 19603  | random same delay\$3 same time                                                                                                                  | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | OR | ON | 2010/03/18 13:45 |
| S126 | 464744 | determin\$6 with ((user adj equipment) phone portable cell cellular mobile pda)                                                                 | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | OR | ON | 2010/03/18 13:46 |
| S127 | 252    | S125 same S126                                                                                                                                  | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | OR | ON | 2010/03/18 13:46 |

|      |          |                                                                                                                                          |                                           |    |    |                  |
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| S128 | 1399     | determin\$6 with ((user adj equipment) phone portable cell cellular mobile pda) and uplink near2 access                                  | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | OR | ON | 2010/03/18 13:47 |
| S129 | 138      | S125 and S128                                                                                                                            | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | OR | ON | 2010/03/18 13:47 |
| S130 | 24       | bearer same MBMS and (determin\$6 detect\$4) same (feedback feed-back) same (phone portable cell cellular pda mobile)                    | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | OR | ON | 2010/11/26 20:55 |
| S131 | 41       | bearer and MBMS and (determin\$6 detect\$4) same (feedback feed-back) same (phone portable cell cellular pda mobile)                     | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | OR | ON | 2010/11/26 20:57 |
| S132 | 51       | bearer and MBMS and (determin\$6 detect\$4 reduc \$4) same (feedback feed-back collision) same (phone portable cell cellular pda mobile) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | OR | ON | 2010/11/26 20:59 |
| S133 | 1        | 10/534380                                                                                                                                | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | OR | ON | 2010/11/26 20:59 |
| S134 | 13908    | tim\$3 near interval same random                                                                                                         | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | OR | ON | 2010/11/26 21:03 |
| S135 | 720      | 455/515.ccis.                                                                                                                            | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | OR | ON | 2010/11/26 21:04 |
| S136 | 17       | S134 and S135                                                                                                                            | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | OR | ON | 2010/11/26 21:04 |
| S137 | 41       | bearer and MBMS same timer same (phone portable cell cellular pda mobile)                                                                | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | OR | ON | 2010/11/26 21:08 |
| S138 | 139      | bearer and MBMS and timer same (phone portable cell cellular pda mobile)                                                                 | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | OR | ON | 2010/11/26 21:26 |
| S139 | 26156653 | @ad<"20021107" @rlad<"20021107"                                                                                                          | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | OR | ON | 2010/11/26 21:26 |

|      |           |                                                                                                                          |                                                    |    |    |                     |
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| S140 | :2        | S138 and S139                                                                                                            | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT | OR | ON | 2010/11/26<br>21:27 |
| S141 | :42       | delay\$3 near timer and retransmission near timer                                                                        | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT | OR | ON | 2010/11/26<br>21:29 |
| S142 | 17073     | (delay\$4 collision) same (determin\$4 detect\$3) near5 (user equipment mobile phone portable cellular pda)              | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT | OR | ON | 2010/11/27<br>12:11 |
| S143 | 7485      | (delay\$4 collision) with (determin\$4 detect\$3) near5 (user equipment mobile phone portable cellular pda)              | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT | OR | ON | 2010/11/27<br>12:11 |
| S144 | :44       | random near2 (delay\$4 collision) with (determin\$4 detect\$3) near5 (user equipment mobile phone portable cellular pda) | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT | OR | ON | 2010/11/27<br>12:12 |
| S145 | :26156683 | @ad<"20021107"<br>@rlad<"20021107"                                                                                       | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT | OR | ON | 2010/11/27<br>12:12 |
| S146 | :22       | S144 and S145                                                                                                            | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT | OR | ON | 2010/11/27<br>12:13 |

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